

202

8.4 HW
8.6

p428-429 10, 11, 16-24, 27, 29

10. $5x - 3 = 4x + 6$

$x = 9$

$5(9) - 3 = 42 \times 2 = \textcircled{84}$

11. $2x + 3 = 5x - 9$

$12 = 3x$

$4 = x$

$2(4) + 3 = \textcircled{11}$

16. $m\angle 1 = 30$

21. $m\angle 6 = 60$

17. $m\angle 2 = 60$

22. $m\angle 7 = 60$

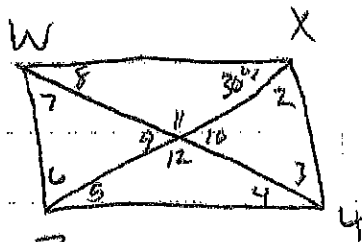
18. $m\angle 3 = 60$

23. $m\angle 8 = 30$

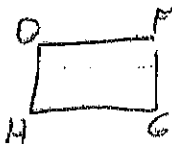
19. $m\angle 4 = 30$

24. $m\angle 9 = 60$

20. $m\angle 5 = 30$



27. $D(9, -1)$



$F(9, 5)$

$G(-6, 5)$

$H(-6, -1)$

① Is it a \square ?

② Is it a Rect?

Not \square

$DF = \sqrt{(9-9)^2 + (-1-5)^2} = \sqrt{36} \quad m = \frac{-6}{0} \text{ undef}$

$GH = \sqrt{(-6-9)^2 + (5-1)^2} = \sqrt{16} \quad m = \frac{4}{0} \text{ undef}$

$DH = m = \frac{-1-1}{-6-9} = \frac{2}{-15}$

$FG = m = \frac{5-5}{9-2} = 0$

Not \square

29. $D(-4, -3) \quad F(-5, 8) \quad G(6, 9) \quad H(7, -2)$

$\overline{DF} \quad m = \frac{8-(-3)}{-5-(-4)} = \frac{11}{-1} = -11$

$\overline{DH} \quad m = \frac{-2-(-3)}{-4-7} = \frac{1}{-11} = -\frac{1}{11}$

yes opp sides \parallel cons. sides \perp

$\overline{HG} \quad m = \frac{9-(-2)}{6-7} = \frac{11}{-1} = -11 \quad \overline{FG} \quad m = \frac{9-8}{6-(-5)} = \frac{1}{11}$